

WHAT IS CLAIMED IS:

1. A system comprising:

a controller;

a monitor connected with said controller;

5 at least one object to be controlled, said object
connected with said controller;

development means for developing a program for said
controlled object;

10 implement means for implementing the program developed
by said development means; and

a software module uniquely assigned to said object,
said software module being in a form of software providing
at least one of procedures including,

15 an icon procedure for displaying an icon for said
object in a display area on said monitor,

a description procedure for describing a control
process for said object, and

an implement procedure for implementing the
control process developed for said object.

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2. The system according to Claim 1,

wherein said object includes at least one device from
which said development means acquires a global unique ID or
another similar data thereto, and

25 wherein said development means identifies said

software module with the global unique ID or another similar data thereto.

3. The system according to Claim 2,

5 wherein said software module is stored within said object so that said development means acquires said software module from said controlled object.

4. The system according to Claim 2,

10 wherein said software module is stored within a database server connected with said development means through a communication bus so that said development means acquires said software module from the database server.

15 5. The system according to Claim 2,

wherein said development means provides a display area on the monitor, in which at least one icon is displayed, the icon representing for said object connected to said controller or said object to be connected to said controller.
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6. The system according to Claim 5,

25 wherein the icon procedure displays a plurality of icons in the display area on said monitor, each icon illustrating a current status of said object.

7. The system according to Claim 5,
wherein said development means provides a development
area on said monitor, and

5 wherein the user copies the icon from the display area
onto the development area, thereby to develop the program.

8. The system according to Claim 7,
wherein the user utilizes the description procedure
10 for describing a control process for said object
determining an operation of said object, thereby to develop
the program.

9. The system according to Claim 8,
15 wherein the icon procedure displays a plurality of
icons in the display area on said monitor, each icon
illustrating an operation of said object.

10. The system according to Claim 7,
20 wherein the user connects a plurality of the icons
with each other to form a flowchart in the development area,
thereby to develop the program.

11. The system according to Claim 9,
25 wherein said development means displays the icons in

the display area, and simulates the operation of said object while the program is simulated, whereby the monitor is used for displaying the simulation thereof.

5 12. The system according to Claim 6,

wherein said development means displays the icons in the display area, illustrates the operation of said object while said implement means implements the program, whereby the monitor is used for displaying the operation thereof.

10 13. The system according to Claim 7,

wherein said implement means sends messages to and/or receives messages from said object according to the developed program.

15 14. The system according to Claim 7,

wherein said object is connected with said controller through an interface serving functions including a Plug and Play function or a Hot Plug function.

20 15. A storage media storing
a computer program for execution on a system which
comprises a controller,

a monitor connected with said controller,

25 at least one object to be controlled, said object

connected with said controller,

development means for developing a program for said controlled object,

implement means for implementing the program developed
5 by said development means, and

a software module uniquely assigned to said object,
said software module including an icon procedure for
displaying an icon for said object in a display area on
said monitor, a description procedure for describing a
10 control process for said object, and an implement procedure
for implementing the control process developed for said
object,

said system in which said object includes at least one
device,

15 said computer program comprising:

a first subprocess, in which said development means
acquires a global unique ID or another similar data thereto
from said device;

a second subprocess, in which said development means
20 identifies said software module with the global unique ID
or another similar data thereto;

a third subprocess, in which said development means
provides a display area on the monitor, in which at least
one icon is displayed, the icon representing for said
25 object connected to said controller or said object to be

connected to said controller;

a forth subprocess, in which said development means provides a development area on said monitor; and

5 a fifth subprocess, in which the icon is copied from the display area onto the development area, thereby to develop an application program.